



IFWO

RAW SEQUENCE LISTING

DATE: 08/31/2004

PATENT APPLICATION: US/10/797,613

TIME: 12:57:32

Input Set : N:\Crf3\RULE60\10797613.raw

Output Set: N:\CRF4\08312004\J797613.raw

1 <110> APPLICANT: Zambrowicz, Brian
 2 Friedrich, Glenn A.
 3 Lilleberg, Stan
 4 Sands, Arthur T.
 5 <120> TITLE OF INVENTION: Vectors for Gene Mutagenesis and Gene Discovery
 6 <130> FILE REFERENCE: 07705.0001-00000
 7 <140> CURRENT APPLICATION NUMBER: US/10/797,613
 8 <141> CURRENT FILING DATE: 2004-03-09
 9 <150> PRIOR APPLICATION NUMBER: US/09/443,282
 10 <151> PRIOR FILING DATE: 1999-11-19
 11 <150> PRIOR APPLICATION NUMBER: US 09/276,533
 12 <151> PRIOR FILING DATE: 1999-03-25
 13 <150> PRIOR APPLICATION NUMBER: US 60/109,302
 14 <151> PRIOR FILING DATE: 1998-11-20
 15 <150> PRIOR APPLICATION NUMBER: US 60/081,727
 16 <151> PRIOR FILING DATE: 1998-04-14
 17 <150> PRIOR APPLICATION NUMBER: US 60/079,729
 18 <151> PRIOR FILING DATE: 1998-03-27
 19 <160> NUMBER OF SEQ ID NOS: 33
 20 <170> SOFTWARE: PatentIn version 3.2
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 43
 24 <212> TYPE: DNA
 25 <213> ORGANISM: mus musculus
 26 <400> SEQUENCE: 1
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 29 <210> SEQ ID NO: 2
 30 <211> LENGTH: 41
 31 <212> TYPE: DNA
 32 <213> ORGANISM: adenovirus
 33 <400> SEQUENCE: 2
 34 gatgatgtca taactatcct gtcccttttt ttccacagc t 41
 36 <210> SEQ ID NO: 3
 37 <211> LENGTH: 35
 38 <212> TYPE: DNA
 39 <213> ORGANISM: mus musculus
 40 <400> SEQUENCE: 3
 41 ggcggtcagg ctgccctctg ttccattgc aggaa 35
 43 <210> SEQ ID NO: 4
 44 <211> LENGTH: 42
 45 <212> TYPE: DNA
 46 <213> ORGANISM: mus musculus
 47 <400> SEQUENCE: 4



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48      tgtcagtcctg tcataccttgc cccttcagcc gcccgatgg cg      42
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51 <211> LENGTH: 39
52 <212> TYPE: DNA
53 <213> ORGANISM: mus musculus
54 <400> SEQUENCE: 5
55      tgctgacacc ccaactgttcc ctgcaggacc gccttcaac      39
57 <210> SEQ ID NO: 6
58 <211> LENGTH: 34
59 <212> TYPE: DNA
60 <213> ORGANISM: mus musculus
61 <400> SEQUENCE: 6
62      taattgtgta attattgttt ttcctccttt agat      34
64 <210> SEQ ID NO: 7
65 <211> LENGTH: 40
66 <212> TYPE: DNA
67 <213> ORGANISM: mus musculus
68 <400> SEQUENCE: 7
69      cagaatcttc tttttaattc ctgattttat ttctatagga      40
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72 <211> LENGTH: 37
73 <212> TYPE: DNA
74 <213> ORGANISM: mus musculus
75 <400> SEQUENCE: 8
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78 <210> SEQ ID NO: 9
79 <211> LENGTH: 37
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81 <213> ORGANISM: mus musculus
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86 <211> LENGTH: 36
87 <212> TYPE: DNA
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93 <211> LENGTH: 35
94 <212> TYPE: DNA
95 <213> ORGANISM: mus musculus
96 <400> SEQUENCE: 11
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101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: chimeric sequence

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106      ccagtgcagca gactgacgag gactcgagct caagcttttt tttttttttt tt      52
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110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: chimeric sequence
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117 <210> SEQ ID NO: 14
118 <211> LENGTH: 22
119 <212> TYPE: DNA
120 <213> ORGANISM: mus musculus
121 <400> SEQUENCE: 14
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124 <210> SEQ ID NO: 15
125 <211> LENGTH: 23
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: chimeric sequence
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135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
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143 <211> LENGTH: 23
144 <212> TYPE: DNA
145 <213> ORGANISM: mus musculus
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151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: chimeric sequence
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158 <210> SEQ ID NO: 19
159 <211> LENGTH: 20
160 <212> TYPE: DNA

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161 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: chimeric sequence
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165         ctgtaaaacg acggccagtc                                20
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168 <211> LENGTH: 68
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171 <220> FEATURE:
172 <223> OTHER INFORMATION: chimeric sequence
173 <400> SEQUENCE: 20
174         cacgtctgca gatcatgagg atgctaatacc ttgatggcat gcactatgcg cgatgatctg      60
175         cagacgtg                                                68
177 <210> SEQ ID NO: 21
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179 <212> TYPE: RNA
180 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: chimeric sequence
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184         caccgucgca gaucaugagg augcuaaucc uugauggcau gcacuaugcg cgaugaucug      60
185         cagacgug                                                68
187 <210> SEQ ID NO: 22
188 <211> LENGTH: 70
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: chimeric sequence
193 <400> SEQUENCE: 22
194         cacgtctgca gtccggagga gtgtgtttct cctccgctga tgagtcctg aggcagaaac      60
195         tgcagacgtg                                                70
197 <210> SEQ ID NO: 23
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199 <212> TYPE: RNA
200 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: chimeric sequence
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204         caccgucgca guccggagga guguguuucu ccuccgcuga ugaguccgug aggcagaaac      60
205         ugcagacgug                                                70
207 <210> SEQ ID NO: 24
208 <211> LENGTH: 279
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: chimeric sequence
213 <400> SEQUENCE: 24
214         ggatccgaat tctcgaggct aagccagttt tctgaccctt gactgcgttt catcgattcg      60

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215      ctactaacat tgccttttcc tccttccctc ccacaggtgg aagagctcgg gtaccaggag      120
216      aggagaggag aggagaggag aggagaggag aggagaggag aggagaggag aggagatctc      180
217      aggtgagttc gcatgtgctt cgaacttggtg tgcattgcgtt ctaaaagggc ttctcttggt      240
218      gttcgatctg gggctaagct taattaagaa ttcggatcc                               279

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220 <210> SEQ ID NO: 25

221 <211> LENGTH: 104

222 <212> TYPE: DNA

223 <213> ORGANISM: Artificial Sequence

224 <220> FEATURE:

225 <223> OTHER INFORMATION: chimeric sequence

226 <400> SEQUENCE: 25

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227      gtggaagagc tcgggtacca ggagaggaga ggagaggaga ggagaggaga ggagaggaga      60
228      ggagaggaga ggagaggaga tctcaggtga gttcgcattg gctt                               104

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230 <210> SEQ ID NO: 26

231 <211> LENGTH: 96

232 <212> TYPE: DNA

233 <213> ORGANISM: Artificial Sequence

234 <220> FEATURE:

235 <223> OTHER INFORMATION: chimeric sequence

236 <400> SEQUENCE: 26

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237      atgtggaaga gctcgggtac caggagagga gaggagagga gaggagagga gaggagagga      60
238      gaggagagga gatctcaggt gagttcgcatt gtcgctt                               96

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240 <210> SEQ ID NO: 27

241 <211> LENGTH: 526

242 <212> TYPE: DNA

243 <213> ORGANISM: Artificial Sequence

244 <220> FEATURE:

245 <223> OTHER INFORMATION: chimeric sequence

246 <220> FEATURE:

247 <221> NAME/KEY: misc_feature

248 <222> LOCATION: (20)..(518)

249 <223> OTHER INFORMATION: n = a, t, c, or g

250 <220> FEATURE:

251 <221> NAME/KEY: misc_feature

252 <222> LOCATION: (20)..(518)

253 <223> OTHER INFORMATION: each of these residues may be absent or present

254 <400> SEQUENCE: 27

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W--> 255      gtggaagagc tcgggtaccn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      60

```

```

256      nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      120

```

```

257      nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      180

```

```

258      nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      240

```

```

259      nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      300

```

```

260      nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      360

```

```

261      nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      420

```

```

262      nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      480

```

```

263      nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntc tcaggt                               526

```

265 <210> SEQ ID NO: 28

266 <211> LENGTH: 528

267 <212> TYPE: DNA

RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : N:\Crif3\RULE60\10797613.raw
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:27; N Pos. 20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39
Seq#:27; N Pos. 40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59
Seq#:27; N Pos. 60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79
Seq#:27; N Pos. 80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99
Seq#:27; N Pos. 100,101,102,103,104,105,106,107,108,109,110,111,112,113,114
Seq#:27; N Pos. 115,116,117,118,119,120,121,122,123,124,125,126,127,128,129
Seq#:27; N Pos. 130,131,132,133,134,135,136,137,138,139,140,141,142,143,144
Seq#:27; N Pos. 145,146,147,148,149,150,151,152,153,154,155,156,157,158,159
Seq#:27; N Pos. 160,161,162,163,164,165,166,167,168,169,170,171,172,173,174
Seq#:27; N Pos. 175,176,177,178,179,180,181,182,183,184,185,186,187,188,189
Seq#:27; N Pos. 190,191,192,193,194,195,196,197,198,199,200,201,202,203,204
Seq#:27; N Pos. 205,206,207,208,209,210,211,212,213,214,215,216,217,218,219
Seq#:27; N Pos. 220,221,222,223,224,225,226,227,228,229,230,231,232,233,234
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Seq#:28; N Pos. 296,297,298,299,300,301,302,303,304,305,306,307,308,309,310
Seq#:28; N Pos. 311,312,313,314,315,316,317,318,319,320,321,322,323,324,325

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:32; Line(s) 352

Seq#:33; Line(s) 370

VERIFICATION SUMMARY

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L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29